03593500 TENNESSEE RIVER AT SAVANNAH, TN

LOCATION.--Lat 35°13'29", long 88°15'26", Hardin County, Hydrologic Unit 06040001, on right bank at upstream side of bridge on U.S. Highway 64, at Savannah, 16.8 mi downstream from Pickwick Landing Dam, and at mile 189.9.

DRAINAGE AREA.--33,140 mi^2 approximately.

PERIOD OF RECORD.--September 1930 to current year. Gage-height records collected in this vicinity since June 1905, are in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 853: Drainage area. WSP 1306: 1936 (monthly runoff). WSP 2110: 1966. WRD TN-73-1: 1973-96. WRD TN- 74-1: 1973. WRD TN-85-1: 1985. WRD TN-90-1: 1989.

GAGE.--Data collection platform. Datum of gage is 350.06 ft above NGVD of 1929 (Levels by Tennessee Valley Authority). Prior to Oct. 1, 1992, at datum 50.06 ft lower, prior to Apr. 7, 1945, at datum 8.45 ft lower. Oct. 1, 1948 to Apr. 13, 1978 and Oct. 1, 1989 to present, auxiliary water-stage recorder on downstream end of lockwall in lower pool at Pickwick Landing Dam Apr. 13, 1978 to Sept. 30, 1989, auxiliary water-stage recorder over tailwater elevation well adjacent to the powerhouse which is an integral part of Pickwick Landing Dam, both sites 16.8 mi. upstream from base gage at same datum. Apr. 5, 1937, to Jan. 31, 1939, auxiliary nonrecording gage 4.0 mi downstream and Feb. 1, 1939, to Sept. 30, 1948, water-stage recorder 4.3 mi downstream from base gage at same datum.

REMARKS.--Records good, except for estimated discharges, which are fair. Slight regulation since 1924 by Wilson Lake and increasing regulation since 1936 as other reservoirs have been built above station ((see p. 358) and Water Resources Data for adjoining states). Periodic observations of specific conductance and water temperature are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1867, 101.2 ft, Mar. 21, 1897, datum then in use, from floodmarks, discharge, 450,000 ft^3/s, from rating curve extended above 320,000 ft^3/s. Flood of Jan. 2, 1927, reached a stage of 92.7 ft datum then in use, discharge, 349,000 ft^3/s. Minimum stage since 1905, 38.8 ft datum then in use, Sept. 8, 1925.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 253,000 ft^3/s, Feb. 9; maximum gage height, 30.32 ft, Feb. 9, 10; minimum daily discharge, 7,360 ft^3/s, Mar. 28, minimum gage height, 4.18 ft, Nov. 16.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44,600	25,500	81,400	59,000	56,900	51,200	38,700	14,100	48,300	87,800	43,600	e33,000
2	39,800	17,900	74,500	62,300	53,700	12,500	10,400	17,700	41,100	87,300	62,000	45,100
3	43,800	36,700	75,200	40,300	52,300	57,000	8,580	16,100	42,000	77,500	59,600	37,800
4	16,900	35,700	81,200	42,600	71,100	68,300	8,820	23,600	18,300	76,500	53,300	52,900
5	13,900	45,700	80,000	61,800	91,700	76,600	8,530	22,100	13,700	79,600	53,000	47,500
6	44,200	42,500	80,000	71,900	172,000	98,200	e8,650	24,900	19,500	71,200	35,600	46,500
7	50,400	44,200	78,900	73,300	208,000	142,000	e8,800	31,100	52,000	56,900	16,200	53,900
8	59,400	50,800	71,400	72,300	233,000	159,000	9,470	19,300	53,000	60,000	31,300	49,700
9	51,800	25,800	59,300	79,500	251,000	163,000	8,910	23,800	47,200	53,800	35,200	23,600
10	38,400	33,500	92,200	80,300	225,000	165,000	9,300	21,100	31,800	33,800	49,400	33,700
11	26,400	47,500	92,600	79,400	190,000	160,000	10,100	19,300	38,900	32,300	53,100	34,900
12	9,870	38,200	92,100	62,300	177,000	131,000	10,800	21,400	26,800	38,800	14,300	23,600
13	41,400	49,500	91,200	38,100	143,000	115,000	10,000	28,300	28,900	53,400	12,800	48,800
14	48,500	47,400	89,800	59,400	111,000	108,000	13,700	e16,000	25,500	51,900	7,610	74,700
15	43,300	26,100	79,700	61,000	108,000	94,300	e16,400	26,500	28,600	38,400	10,600	102,000
16	52,500	20,800	70,700	68,800	106,000	81,800	16,100	11,200	49,500	22,200	30,400	110,000
17	42,700	42,200	71,100	51,300	96,800	80,300	e8,270	26,900	46,200	26,700	41,500	128,000
18	15,800	57,600	74,700	48,300	104,000	64,800	e8,540	30,500	35,300	23,500	38,200	159,000
19	28,500	70,100	77,300	64,900	103,000	53,300	23,500	18,100	21,000	47,700	38,400	170,000
20	43,900	68,900	77,300	75,500	92,100	29,400	29,000	40,700	16,300	41,100	49,800	170,000
21	54,000	62,600	76,900	72,300	82,700	9,980	22,800	16,500	48,700	45,700	13,200	163,000
22	50,900	51,500	75,700	75,200	82,500	47,200	25,000	11,700	41,300	41,500	16,100	154,000
23	26,800	46,500	75,300	67,600	81,600	55,600	25,100	13,000	41,100	48,300	44,200	131,000
24	21,800	66,800	76,000	58,300	80,600	55,500	9,440	15,900	50,600	14,200	61,300	96,900
25	28,800	74,200	47,400	12,800	65,700	16,000	10,300	24,600	69,600	14,400	36,200	66,700
26	27,600	59,000	49,700	42,600	56,400	15,100	18,300	20,100	119,000	12,900	42,100	64,600
27	34,100	76,000	43,500	76,200	72,200	10,500	18,800	19,400	112,000	23,700	63,600	64,200
28	28,700	81,700	49,000	75,100	53,500	7,360	20,600	13,300	105,000	53,200	e52,100	64,900
29	44,000	65,200	62,100	76,100	40,200	8,580	18,000	15,300	105,000	45,800	e49,500	64,500
30	40,500	69,500	50,800	74,700	---	8,550	15,200	13,500	92,100	15,200	e26,200	64,500
31	35,400	---	63,000	78,100	---	39,200	---	19,200	---	20,500	e50,700	---
TOTAL	1,148,670	1,479,600	2,260,000	1,961,300	3,261,000	2,184,270	450,110	635,200	1,468,300	1,395,800	1,191,110	2,379,000
MEAN	37,050	49,320	72,900	63,270	112,400	70,460	15,000	20,490	48,940	45,030	38,420	79,300
MAX	59,400	81,700	92,600	80,300	251,000	165,000	38,700	40,700	119,000	87,800	63,600	170,000
MIN	9,870	17,900	43,500	12,800	40,200	7,360	8,270	11,200	13,700	12,900	7,610	23,600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2004, BY WATER YEAR (WY)

MEAN	36,150	47,160	71,920	87,330	93,580	84,960	54,440	48,770	40,510	38,530	37,510	35,490
MAX	97,010	147,000	160,100	223,100	228,100	185,600	172,300	157,800	112,900	84,810	64,740	79,300
(WY)	(1990)	(1958)	(1992)	(1974)	(1957)	(1973)	(1994)	(2003)	(1997)	(1989)	(1967)	(2004)
MIN	18,820	20,510	26,850	23,710	30,610	19,840	11,150	8,977	10,490	12,910	15,910	15,800
(WY)	(1955)	(1954)	(1981)	(1986)	(2000)	(1988)	(1986)	(1988)	(1988)	(1988)	(1988)	(1968)

03593500 TENNESSEE RIVER AT SAVANNAH, TN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		*WATER YEARS 1946 - 2004	
ANNUAL TOTAL	25,642,690		19,814,360			
ANNUAL MEAN	70,250		54,140		56,210	
HIGHEST ANNUAL MEAN					86,550	1973
LOWEST ANNUAL MEAN					23,090	1988
HIGHEST DAILY MEAN	361,000	May 11	251,000	Feb 9	495,000	Mar 18, 1973
LOWEST DAILY MEAN	7,200	Mar 30	7,360	Mar 28	60	Apr 23, 1966
ANNUAL SEVEN-DAY MINIMUM	13,900	Apr 1	8,820	Apr 3	5,890	May 20, 1986
MAXIMUM PEAK FLOW					507,000	Mar 18, 1973
MAXIMUM PEAK STAGE					a96.11	Mar 20, 1973
INSTANTANEOUS LOW FLOW					60	Apr 23, 1966
10 PERCENT EXCEEDS	120,000		96,800		107,000	
50 PERCENT EXCEEDS	55,000		47,600		42,400	
90 PERCENT EXCEEDS	27,100		13,800		21,100	

* Regulated period only.
a Datum then in use; see GAGE paragraph.
e Estimated